K20U 0196

Reg. No. : .....

Name : .....

VI Semester B.C.A. Degree (CBCSS-Reg./Supple./Improv.) Examination, April 2020
(2014 Admission Onwards)
Core Course
6B21 BCA : SYSTEMS SOFTWARE

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer **all** questions. **Half** mark **each**. **(8×0.5=4)**

1. a) EQU is an example for _____ statement.
   b) _____ rules associate meanings with valid statement of the source language.
   c) The data structure used for memory allocation of a machine language program is
   d) Expand JIT.
   e) _____ statement lists public definitions of the program unit.
   f) _____ contains all the information needed to relocate and link the program unit with other program units.
   g) _____ is a finite sequence of symbols.
   h) The flow of control during macro expansion is implemented using _____

SECTION – B

Answer **any 7** questions. **2** marks **each**.

2. What are the functions of system software ?

3. Define Language processing.

4. What are the different organisations of an assembler ?

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5. What is the use of analytic operator ?
6. Give an example for expansion time loop in macros.
7. What are the binding times arise in compilers ?
8. What are the different types of dynamic memory allocations ?
9. What is meant by address sensitive program ?
10. What are the components of an interpreter ?
11. What is semantic expansion ?

SECTION – C

Answer **any 4** questions. **3** mark **each**.

12. What are the goals of system software ?
13. Write an algorithm for Pass I of two-pass assembler.
14. How do you use different kinds of formal parameters in a macro definition ?
15. Explain the data structures used in compilers.
16. Discuss about different types of loaders.
17. Write a note on debug monitor.

SECTION – D

Answer **any 2** questions. **5** mark **each**.

18. Discuss about the functions performed to the front end and back end of a compiler.
19. Explain the design of a macro preprocessor.
20. Describe the different phases in the optimization of a program.
21. Describe about software tools.